



The new degree of comfort.™

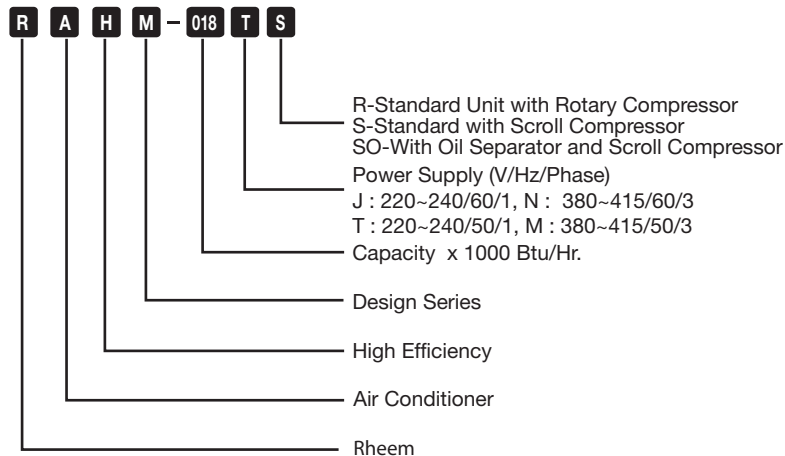
High Efficiency

Low Height Air Handler With Side Discharge Condensing Unit

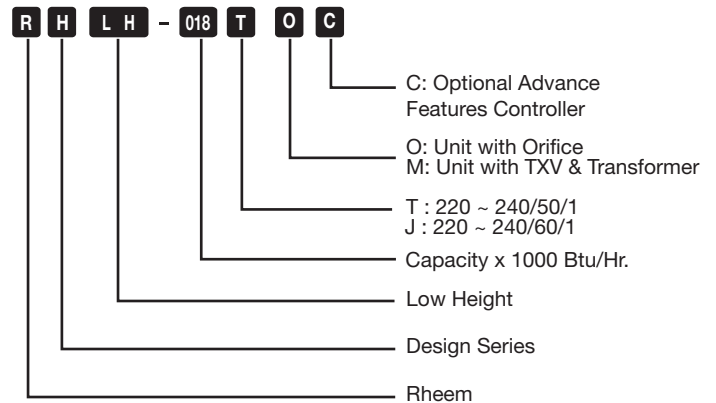


NOMENCLATURE

Outdoor Unit:



Indoor Unit:



ENGINEERING FEATURES

RHLH Series Indoor Units

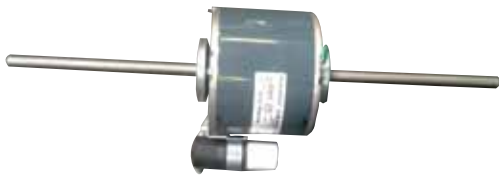
Cabinet:

Polyester based Powder coated, made from Hot deep galvanized steel sheet metal for high corrosion resistance of 1000 hrs salt spray test as per ASTM-B117 std.



Motor:

Multi speed, internally protected Ultra high efficiency with Class-B insulation mounted on resilient neoprene rubber mountings to reduce noise level
Ultra high efficiency & low RPM motors:
6 Pole Motors (920 RPM)



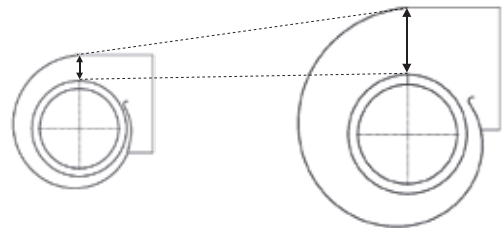
Motor Mounting Arrangement:

Specially designed mounting arrangement for motors to have center alignment of motor & fan blower assembly with housing which provide absolute sturdiness against vibrations.



Silent Operation :

The motor & fans are designed to achieve performance by running at lower RPM to reduce tip speeds for extremely silent operation. Motors used in the units are 8 pole or 6 pole. The fans are designed to operate at lower blower outlet & coil face velocity for quiet & highly efficient operation of units.



Low Height:

Height 12 to 16 inches. Allows for horizontal installation in most standard or replacement work.

Expansion Device:

Thermostatic expansion valve is provided as standard for scroll system for safe operation of refrigeration system under low & high indoor and outdoor temperature environment.

Brass Distributor

Distributor is used in all the indoor units to distribute refrigerant uniformly in the evaporator circuits for best performance in the evaporator coil.



ENGINEERING FEATURES

Blower :

Direct driven, Centrifugal, forward curved, double inlet double width type, made from galvanized steel sheet.

Blower Housing:

Double inlet orifice, Profile to give advantage in low noise, high efficiency and uniform air flow, made from galvanized steel sheet.



Old Conventional Design



New Design

Insulation:

12mm thick irradiated grade EPE, fire retardant lining, odour free material for thermal, hygiene and acoustic application.



Evaporator Coil :

Coils are constructed with inner grooved copper tubes (IGT) & aluminium fins. Fins mechanically bonded to the tubes for maximum heat transfer capabilities. Coated highly corrosion resistant aluminium fins are provided as standard features in all the units.

Antifreeze Protection For Coil :

Antifreeze temperature sensor is provided on coil against freezing during abnormal operating conditions.

Refrigerant Connections :

For field piping connections, sweat solder type joints are provided outside the unit. Rubber plugs with positive pressure inside the coil are provided on the connection for ease of installation.

Drain Pan:

Insulated & powder coated galvanized steel drain pan is designed with adequate slope to have proper condensate drain. The sandwich insulation kept between upper and lower sheet metal panels provides drip free performance.

Drain Pan Cleaning:

The construction of cabinet is designed to remove the drain pan for servicing & cleaning purpose through bottom access under installed condition without disturbing the installation of the unit.

Unit Suspension:

Rolled up rigid brackets for proper and easy mounting / installation of units. Rubberized cushions are provided at hanging brackets for suspending the unit from the ceiling / concrete slab to eliminate vibration.

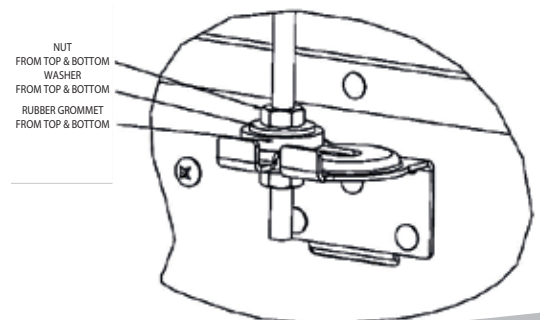
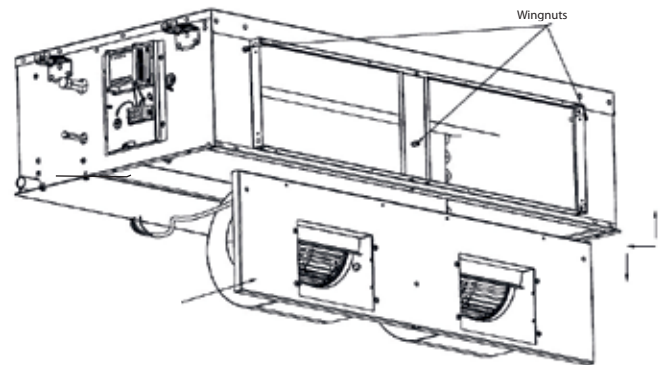
Filters:

5mm thick woven synthetic, permanent washable filters are standard on all units. provision for fixing 1/2" thk field supplied filters is standard feature on all the units. Multiple filters are provided for 48 & above model for easy accessibility for servicing purpose.



Service Access:

Removable panels at the bottom of the unit are provided for service access to blower, blower housing, motors & expansion valve. Entire fan and motor section assembly can be separated from the cabinet by opening special bolts for servicing and maintenance purpose in all the units. This feature provide the complete access of components without opening the ducting & refrigerant connections. Filter access provision is made without removing any part of unit (Lift and Remove from backside).



ENGINEERING FEATURES

Microprocessor Based Controller:

Microprocessor based electronic controller with built in programming for complete control of system, time delays for refrigeration systems protection & interlocking arrangement with safeties are provided as standard feature on all the indoor units.

Controller Features:

- Standard with all units
- Microprocessor based unit
- High pressure and low pressure protection
- Antifreeze protection
- Built in time delay for compressor

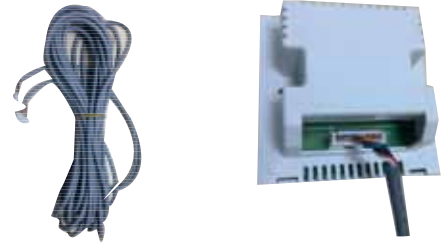
Advance Controller Features (Optional):

- Weekly Scheduling
- Remote ON/OFF
- BMS Compatibility
- Wireless remote controller
- Drain Pump supply



Connecting Cable Flexibility:

Quick connector is provided for interconnecting communication cable (10 meter Long) from main controller to Controller User Interface. This provides the flexibility for Quick connections, avoiding miss connections in terminals and ensure safety for service personel.



Provision For Direct Duct Connection:

Flanges are provided on the front of units, suitable to connect flexible duct.

Testing:

All units are run tested at the factory prior to shipment.

Riveted Panels:

Non serviceable panels in the cabinet are joined with the help of rigid steel rivets. The riveted panel provide very good stability, fit and finish.

RAHM Series Outdoor Units:

Compressor:

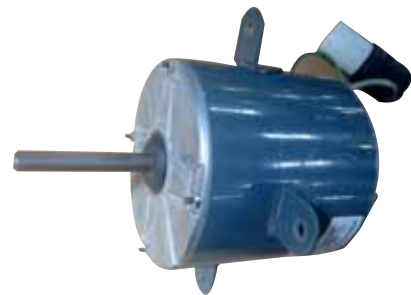
Compressor used in the units are hermetically sealed scroll type and incorporates internal high temperature motor overload protection, and durable insulation on the motor winding. The compressors used are tropical compressors optimized for performance & reliability for high temperature environmental conditions. It is internally spring mounted and externally mounted on rubber grommets to reduce vibration and noise. compressor has an internal pressure - relief assembly to protect agains excessive pressure differential.

Model	Scroll	Rotary
12		✓
18		✓
24	✓	✓
30	✓	✓
36	✓	✓
42	✓	
48	✓	
54	✓	
65	✓	



Condenser Fan Motor:

Internally protected, totally enclosed and permanently lubricated type.



Fan:

Metallic Condenser fan blades ensure safety & high durability.



ENGINEERING FEATURES

Fan Guard:

Metallic wire guard confirms to IEC safety standard & high durability.

Cabinet:

Polyester Powder coated, made from hot dip galvanized steel sheet metal for high corrosion resistance of 1000 hrs salt spray as per ASTM-B117 std. Pressed parts like Base, Foot, Top, Front, Fan Motor Bracket and Side grille are adding sturdiness to the cabinet.

Refrigerant Connections:

All connections are sweat and soldered type on exterior of the unit, located close to the ground for neat appearing installation.

Service Valves:

Standard on all models. These valves are provided outside the unit with service port for connecting gauges for ease of installation, additional refrigerant charging and monitoring of system.



Serviceability:

The compressor the electrical box is located in separate compartment of the cabinet providing for easy access through service panel.



Filter Drier:

Filter drier is supplied loose as standard accessory with the units for installation in liquid line in field. The filter drier prevents the unwanted moisture in the system and help in enhancing the life of the system



Precharged:

Every unit is factory charged and run tested before shipment.

Pressure Cut-Outs:

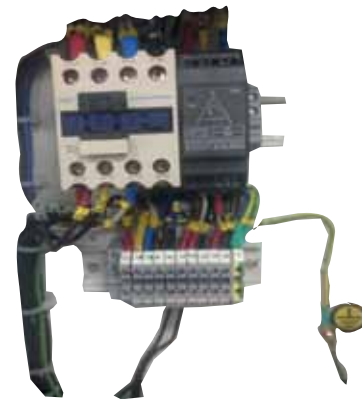
High Pressure and Low Pressure safety controls are a standard feature on all the models. Single Phase, Phase Reversal & Phase Imbalance Protection:

All the 3 Phase units are provided with Single Phase reversal & phase imbalance protection module for safety of electrical components.



Contactor:

Relays are proved as standard for switching the compressor in all models.



Low Ambient Kit:

Low ambient kit is standard feature for protection of refrigeration system operation under low ambient conditions.

Condenser Coil:

Coils are constructed with inner grooved copper tube (IGT) & aluminum fins mechanically bonded to the tubes for maximum heat transfer capabilities. Coated highly corrosion resistant aluminum fins are provided as standard features in all the units.



PHYSICAL AND ELECTRICAL DATA (Scroll Compressor)

TABLE FOR TECHNICAL DATA												
AIR HANDLING UNIT MODEL			RHLH-024TM	RHLH-030TM	RHLH-036TM	RHLH-042TM	RHLH-042TM	RHLH-048TM	RHLH-054TM	RHLH-065TM	RHLH-065TM	
CONDENSING UNIT MODEL			RAHM-024TS	RAHM-030TS	RAHM-036TS	RAHM-042TS	RAHM-042MS	RAHM-048MS	RAHM-054MS	RAHM-065MS	RAHM-065MS	
AMBIENT TEMP 35 °C	EVAP ENTERING AIR TEMP.	27 DB / 19 WB °C	TMBH	21.9	25.2	29.5	37.4	38.1	39.1	45.4	48.9	58.7
			SMBH	17.7	20.9	25.2	29.5	30.0	31.5	36.5	42.7	47.7
		24.4 DB / 17.2 WB °C	TMBH	20.7	23.7	27.7	35.5	36.0	36.9	42.7	46.3	55.5
			SMBH	17.1	19.5	23.7	28.2	28.3	29.8	34.5	40.7	45.3
AMBIENT TEMP 46 °C	EVAP ENTERING AIR TEMP.	29 DB / 19 WB °C	TMBH	19.8	22.9	27.1	33.8	34.1	34.5	40.3	44.0	51.0
			SMBH	18.9	21.3	25.5	31.7	31.7	32.3	38.1	43.1	50.6
		24.4 DB / 17.2 WB °C	TMBH	18.2	21.0	24.0	31.3	31.3	32.2	37.3	40.9	48.4
			SMBH	15.9	18.0	21.4	26.1	26.0	27.3	31.8	37.6	42.0
AIR FLOW PERFORMANCE (DRY COIL)	LOW	CFM	745	795	1170	1250	1250	1195	1315	1740	1740	
	MED		770	840	1225	1290	1290	1355	1450	1865	1865	
	HIGH		790	890	1275	1355	1355	1495	1645	1990	1990	
NOISE LEVEL	LOW	dBA	40.8	46.3	45.8	45.9	45.9	46.9	48.1	51.3	51.3	
	MED		41.3	46.5	46.3	46.7	46.7	48.1	49.1	52	52	
	HIGH		41.7	47.5	47.1	47.4	47.4	49.1	50.7	52.6	52.6	
EXTERNAL STATIC PRESSURE (ESP)			IN (Pa)	0.1 (25)	0.1 (25)	0.15 (37)	0.15 (37)	0.15 (37)	0.15 (37)	0.2 (50)	0.2 (50)	0.2 (50)
NUMBER OF COMPRESSORS				1	1	1	1	1	1	1	1	
NUMBER OF REFRIGERANT CIRCUIT FOR AHU				1	1	1	1	1	1	1	1	
EXPANSION DEVICE/REFRIGERANT - R410A				Thermostatic Expansion Valve								
ELECTRICAL DATA	POWER SUPPLY	AIR HANDLING UNIT	PH-HZ-VOLT	1-50-230	1-50-230	1-50-230	1-50-230	1-50-230	1-50-230	1-50-230	1-50-230	
		CONDENSING UNIT		1-50-230	1-50-230	1-50-230	1-50-230	3-50-400	3-50-400	3-50-400	3-50-400	3-50-400
	POWER INPUT	AIR HANDLING UNIT	KW	0.10	0.15	0.17	0.23	0.23	0.27	0.29	0.40	0.40
		CONDENSING UNIT		1.68	1.99	2.26	2.88	2.94	2.98	3.54	3.54	4.61
	CIRCUIT BREAKER SIZE	AIR HANDLING UNIT	AMPS	15	15	15	15	15	15	15	15	15
		CONDENSING UNIT		25	25	32	32	20	20	25	25	25
	FULL LOAD CURRENT	AIR HANDLING UNIT	AMPS	0.4	0.6	0.9	1.4	1.3	1.3	1.4	1.7	1.8
		CONDENSING UNIT		7.5	9.0	9.8	12.5	6.1	6.2	7.1	7.1	8.9
COIL FACE AREA	AIR HANDLING UNIT	SQ. FT	3.56	3.56	4.47	4.47	4.47	6.10	6.10	8.20	8.20	
	CONDENSING UNIT		6.71	6.71	9.18	9.18	9.18	9.18	10.34	10.34	11.92	
NO OF FANS	AIR HANDLING UNIT	NOS.	2	2	2	2	2	2	2	2	2	
	CONDENSING UNIT		1	1	1	1	1	1	1	1	1	
NET WEIGHT	INDOOR UNIT	KG	37	42	52	52	52	68	68	76	76	
	OUTDOOR UNIT		54	58	72	82	82	92	89	89	95	

* Electrical data is mentioned at T1 condition.

PHYSICAL AND ELECTRICAL DATA (Rotary Compressor)

TABLE FOR TECHNICAL DATA								
AIR HANDLING UNIT MODEL			RHLH-012TO	RHLH-018TO	RHLH-024TO	RHLH-030TO	RHLH-042TO	
CONDENSING UNIT MODEL			RAHM-012TR	RAHM-018TR	RAHM-024TR	RAHM-030TR	RAHM-036TR	
AMBIENT TEMP 35 °C	EVAP ENTERING AIR TEMP.	27°DB / 19 WB °C	TMBH	11.6	17.9	21.1	24.5	30.2
			SMBH	10.1	14.4	17.4	19.8	25.4
		24.4°DB / 17.2° WB °C	TMBH	10.6	16.7	19.9	22.7	28.8
			SMBH	9.6	13.4	16.3	18.6	24.2
AMBIENT TEMP 46 °C	EVAP ENTERING AIR TEMP.	29°DB / 19°WB °C	TMBH	10.4	15.7	19.2	21.5	27.6
			SMBH	9.9	15.0	18.1	20.6	26.4
		24.4°DB / 17.2° WB °C	TMBH	9.0	13.9	17.4	19.6	24.9
			SMBH	8.5	12.2	15.0	17.0	22.1
AIR FLOW PERFORMANCE (DRY COIL)	LOW	CFM	360	485	745	795	1145	
	MED		435	570	770	840	1200	
	HIGH		500	650	790	890	1250	
SOUND LEVEL	LOW	dBA	38.6	38.4	40.8	46.3	44.8	
	MED		39.3	39.1	41.3	46.5	45.4	
	HIGH		39.7	40.5	41.7	47.5	45.9	
EXTERNAL STATIC PRESSURE (ESP)			IN (Pa)	0.1 (25)	0.1 (25)	0.1 (25)	0.1 (25)	0.15 (37)
NUMBER OF COMPRESSORS				1	1	1	1	
NUMBER OF REFRIGERANT CIRCUIT FOR AHU				1	1	1	1	
EXPANSION DEVICE/REFRIGERANT - R410A				Orifice				
ELECTRICAL DATA	POWER SUPPLY	AIR HANDLING UNIT	PH-HZ-VOLT	1-50-230	1-50-230	1-50-230	1-50-230	1-50-230
		CONDENSING UNIT		1-50-230	1-50-230	1-50-230	1-50-230	1-50-230
	POWER INPUT	AIR HANDLING UNIT	KW	0.06	0.08	0.10	0.15	0.17
		CONDENSING UNIT		0.92	1.41	1.59	1.92	2.30
	CIRCUIT BREAKER SIZE	AIR HANDLING UNIT	AMPS	15	15	15	15	15
		CONDENSING UNIT		25	25	25	25	32
	FULL LOAD CURRENT	AIR HANDLING UNIT	AMPS	0.3	0.4	0.4	0.7	0.8
		CONDENSING UNIT		4.1	6.2	7.1	8.6	11.0
COIL FACE AREA	AIR HANDLING UNIT	SQ. FT	2.7	2.7	3.6	3.6	4.5	
	CONDENSING UNIT		6.7	6.7	6.7	6.7	9.2	
NO OF FANS	AIR HANDLING UNIT	NOS.	2	2	2	2	2	
	CONDENSING UNIT		1	1	1	1	1	
NET WEIGHT	INDOOR UNIT	KG	34	36	37	42	52	
	OUTDOOR UNIT		49	58	60	60	83	
MAXIMUM AVAILABLE VERTICAL SEPARATION (ODU ABOVE)			Meter	10	21	21	21	21
MAXIMUM AVAILABLE VERTICAL SEPARATION (ODU BELOW)			Meter	6	9	9	9	9
TOTAL AVAILABLE EQUIVALENT PIPING			Meter	20	30	30	30	30

* Electrical data is mentioned at T1 condition.



PERFORMANCE DATA (Scroll Unit)

MODEL		RHLH-024TM/RAHM-024TS									RHLH-030TM/RAHM-030TS									
INDOOR TEMP OF		80.6°F (27.0°C) DB / 71.0°F (21.7°C) WB			80.6°F (27.0°C) DB / 66.2°F (19.0°C) WB			80.6°F (27°C) DB / 63.0°F (17.2°C) WB			80.6°F (27.0°C) DB / 71.0°F (21.7°C) WB			80.6°F (27.0°C) DB / 66.2°F (19.0°C) WB			80.6°F (27°C) DB / 63.0°F (17.2°C) WB			
DEPRESSION RATIO		High	Med	Low	High	Med	Low	High	Med	Low	High	Med	Low	High	Med	Low	High	Med	Low	
CFM AIR VOL.		790	770	745	790	770	745	790	770	745	890	840	795	890	840	795	890	840	795	
OUTDOOR TEMPERATURE	75°F (23.9°C)	TMBH	25.3	25.2	25.1	23.3	23.2	23.1	21.9	21.8	21.7	29.0	28.7	28.5	26.9	26.7	26.5	25.5	25.3	25.1
		SMBH	15.1	14.9	14.7	18.4	18.2	17.9	20.8	20.5	20.2	16.8	16.5	16.3	20.5	20.1	19.7	23.1	22.5	21.9
		Power	1.45	1.43	1.42	1.46	1.44	1.43	1.47	1.45	1.44	1.76	1.74	1.71	1.75	1.73	1.70	1.74	1.72	1.70
	80°F (26.7°C)	TMBH	25.0	24.9	24.8	23.0	22.9	22.8	21.6	21.5	21.4	28.6	28.4	28.2	26.6	26.4	26.2	25.2	25.0	24.8
		SMBH	15.0	14.8	14.6	18.3	18.1	17.8	20.7	20.4	20.1	16.7	16.4	16.1	20.4	20.0	19.5	22.9	22.3	21.8
		Power	1.54	1.52	1.51	1.55	1.53	1.52	1.55	1.54	1.52	1.87	1.85	1.83	1.86	1.84	1.82	1.86	1.84	1.82
	85°F (29.4°C)	TMBH	24.7	24.6	24.4	22.7	22.6	22.5	21.3	21.2	21.1	28.1	27.9	27.8	26.2	26.0	25.8	24.9	24.7	24.5
		SMBH	14.8	14.7	14.5	18.2	17.9	17.7	20.5	20.3	19.9	16.5	16.2	15.9	20.2	19.8	19.4	22.7	22.2	21.6
		Power	1.62	1.60	1.59	1.63	1.61	1.60	1.64	1.62	1.60	1.97	1.95	1.92	1.96	1.94	1.92	1.96	1.94	1.92
	90°F (32.3°C)	TMBH	24.2	24.2	24.1	22.3	22.2	22.1	20.9	20.8	20.7	27.6	27.4	27.2	25.7	25.5	25.3	24.4	24.2	24.0
		SMBH	14.7	14.5	14.4	18.0	17.8	17.5	20.4	20.1	19.8	16.3	16.0	15.7	20.0	19.5	19.1	22.5	21.9	21.4
		Power	1.70	1.68	1.67	1.70	1.69	1.67	1.71	1.70	1.68	2.05	2.03	2.01	2.05	2.03	2.01	2.05	2.03	2.01
	95°F (35.0°C)	TMBH	23.8	23.7	23.6	21.9	21.8	21.7	20.4	20.4	20.3	27.0	26.8	26.6	25.2	25.0	24.8	23.9	23.7	23.6
		SMBH	14.5	14.3	14.2	17.8	17.6	17.3	20.2	19.9	19.6	16.0	15.7	15.5	19.7	19.3	18.9	22.2	21.7	21.2
		Power	1.77	1.76	1.74	1.78	1.76	1.75	1.79	1.77	1.75	2.14	2.12	2.10	2.14	2.11	2.09	2.13	2.11	2.09
	100°F (37.8°C)	TMBH	23.3	23.2	23.1	21.4	21.3	21.2	20.0	19.9	19.8	26.3	26.1	26.0	24.6	24.4	24.2	23.3	23.1	22.9
		SMBH	14.3	14.1	14.0	17.6	17.4	17.1	19.9	19.7	19.4	15.7	15.4	15.2	19.4	19.0	18.6	22.0	21.4	20.9
		Power	1.85	1.83	1.82	1.85	1.84	1.82	1.86	1.85	1.83	2.23	2.21	2.19	2.22	2.20	2.18	2.22	2.20	2.17
105°F (40.6°C)	TMBH	22.7	22.6	22.5	20.8	20.7	20.6	19.5	19.4	19.3	25.6	25.4	25.3	23.9	23.8	23.6	22.6	22.5	22.4	
	SMBH	14.1	13.9	13.8	17.4	17.2	16.9	19.5	19.4	19.1	15.4	15.1	14.9	19.1	18.7	18.3	21.7	21.1	20.6	
	Power	1.93	1.91	1.90	1.94	1.92	1.91	1.94	1.93	1.91	2.32	2.30	2.28	2.31	2.29	2.27	2.31	2.29	2.27	
110°F (43.3°C)	TMBH	22.0	21.9	21.8	20.2	20.1	20.0	19.1	18.9	18.8	24.9	24.7	24.6	23.3	23.1	22.9	22.0	21.9	21.7	
	SMBH	13.8	13.7	13.5	17.3	17.0	16.7	19.1	18.9	18.8	15.1	14.8	14.6	18.8	18.4	18.0	21.4	20.8	20.3	
	Power	2.02	2.00	1.99	2.02	2.01	1.99	2.03	2.01	2.00	2.43	2.41	2.39	2.42	2.40	2.37	2.41	2.39	2.37	
115°F (46.1°C)	TMBH	21.3	21.2	21.1	19.5	19.4	19.3	18.5	18.4	18.3	24.1	24.0	23.9	22.6	22.4	22.3	21.3	21.2	21.1	
	SMBH	13.6	13.4	13.2	17.0	16.8	16.5	18.5	18.4	18.3	14.7	14.5	14.3	18.5	18.1	17.7	21.1	20.6	19.9	
	Power	2.12	2.10	2.09	2.12	2.11	2.09	2.13	2.11	2.10	2.55	2.53	2.51	2.54	2.52	2.49	2.53	2.50	2.48	
120°F (48.9°C)	TMBH	20.5	20.5	20.4	18.7	18.6	18.6	18.0	17.9	17.7	23.4	23.3	23.1	21.9	21.8	21.6	20.7	20.5	20.4	
	SMBH	13.3	13.1	13.0	16.7	16.5	16.2	18.0	17.9	17.7	14.4	14.2	14.0	18.2	17.7	17.4	20.7	20.2	19.7	
	Power	2.23	2.22	2.20	2.24	2.22	2.21	2.24	2.23	2.21	2.70	2.68	2.65	2.68	2.66	2.64	2.67	2.64	2.62	
125°F (51.7°C)	TMBH	19.7	19.6	19.6	17.9	17.8	17.8	17.4	17.3	17.1	22.7	22.5	22.4	21.2	21.1	21.0	20.1	19.9	19.7	
	SMBH	13.0	12.8	12.7	16.4	16.2	15.9	17.4	17.3	17.1	14.1	13.9	13.6	17.8	17.5	17.1	20.1	19.9	19.5	
	Power	2.36	2.35	2.33	2.37	2.35	2.34	2.37	2.36	2.34	2.87	2.84	2.82	2.84	2.82	2.80	2.83	2.81	2.78	

MODEL		RHLH-036TM/RAHM-036TS									RHLH-042TM/RAHM-042TS									
INDOOR TEMP OF		80.6°F (27.0°C) DB / 71.0°F (21.7°C) WB			80.6°F (27.0°C) DB / 66.2°F (19.0°C) WB			80.6°F (27°C) DB / 63.0°F (17.2°C) WB			80.6°F (27.0°C) DB / 71.0°F (21.7°C) WB			80.6°F (27.0°C) DB / 66.2°F (19.0°C) WB			80.6°F (27°C) DB / 63.0°F (17.2°C) WB			
DEPRESSION RATIO		High	Med	Low	High	Med	Low	High	Med	Low	High	Med	Low	High	Med	Low	High	Med	Low	
CFM AIR VOL.		1275	1225	1170	1275	1225	1170	1275	1225	1170	1355	1290	1250	1355	1290	1250	1355	1290	1250	
OUTDOOR TEMPERATURE	75°F (23.9°C)	TMBH	34.5	34.3	34.2	32.4	32.3	32.1	30.8	30.6	30.5	44.5	44.2	44.0	41.2	41.0	40.8	39.0	38.8	38.6
		SMBH	20.7	20.5	20.3	26.0	25.6	25.1	29.5	29.0	28.4	26.6	26.1	25.8	32.6	31.9	31.4	36.9	36.1	35.5
		Power	2.00	1.97	1.94	1.99	1.96	1.93	1.98	1.95	1.92	2.57	2.49	2.46	2.56	2.48	2.45	2.56	2.48	2.44
	80°F (26.7°C)	TMBH	33.7	33.5	33.4	31.7	31.5	31.4	30.1	30.0	29.9	43.6	43.3	43.1	40.4	40.0	40.0	38.1	37.8	37.7
		SMBH	20.4	20.1	19.9	25.5	25.2	24.7	29.3	28.8	28.1	26.2	25.7	25.4	32.2	31.5	31.1	36.6	35.7	35.1
		Power	2.11	2.07	2.04	2.09	2.06	2.03	2.08	2.05	2.02	2.70	2.62	2.59	2.69	2.61	2.57	2.68	2.60	2.57
	85°F (29.4°C)	TMBH	32.9	32.8	32.6	31.0	30.9	30.7	29.4	29.4	29.2	42.7	42.4	42.2	39.4	39.1	38.9	37.1	36.9	36.7
		SMBH	20.0	19.8	19.5	25.2	24.8	24.4	28.9	28.5	27.8	25.9	25.4	25.1	31.8	31.1	30.6	36.2	35.3	34.7
		Power	2.21	2.18	2.15	2.20	2.17	2.14	2.19	2.16	2.13	2.83	2.75	2.72	2.82	2.74	2.71	2.81	2.73	2.70
	90°F (32.3°C)	TMBH	32.0	31.9	31.8	30.3	30.1	30.0	28.8	28.6	28.5	41.7	41.4	41.2	38.5	38.2	38.0	36.1	35.9	35.8
		SMBH	19.6	19.4	19.2	24.9	24.5	24.1	28.4	28.1	27.5	25.5	25.0	24.7	31.4	30.7	30.3	35.9	34.9	34.3
		Power	2.32	2.29	2.26	2.31	2.28	2.25	2.30	2.27	2.24	2.97	2.89	2.86	2.96	2.88	2.85	2.95	2.87	2.84
	95°F (35.0°C)	TMBH	31.2	31.1	30.9	29.5	29.4	29.3	28.1	28.0	27.8	40.7	40.4	40.3	37.4	37.3	37.1	35.1	35.0	34.8
		SMBH	19.2	19.0	18.8	24.4	24.1	23.7	28.1	27.6	27.1	25.1	24.6	24.3	31.1	30.3	29.9	35.1	34.5	33.9
		Power	2.44	2.41	2.38	2.43	2.40	2.37	2.42	2.39	2.36	3.12	3.04	3.01	3.11	3.03	3.00	3.10	3.02	2.98
	100°F (37.8°C)	TMBH	30.3	30.2	30.1	28.8	28.7	28.5	27.4	27.3	27.1	39.6	39.4	39.2	36.5	36.3	36.2	34.5	34.0	33.6
		SMBH	18.8	18.6	18.4	24.1	23.8	23.3	27.4	27.2	26.7	24.7	24.2	23.9	30.8	30.0	29.5	34.5	34.0	33.4
		Power	2.56	2.53	2.50	2.55	2.52	2.49	2.55	2.51	2.48	3.28	3.20	3.17	3.27	3.19	3.16	3.26	3.18	3.14
105°F (40.6°C)	TMBH	29.3	29.3	29.2	27.9	27.8	27.7	26.8	26.6	26.4	38.6	38.3	38.2	35.4	35.3	35.1	33.7	33.2	33.0	
	SMBH	18.3	18.1	18.0	23.6	23.3	22.9	26.8	26.6	26.4	24.3	23.8	23.5	30.5	29.7	29.1	33.7	33.2	33.0	
	Power	2.70	2.67	2.64	2.69	2.66	2.63	2.68	2.65	2.62	3.45	3.37	3.34	3.44	3.36	3.33	3.43	3.35	3.32	
110°F (43.3°C)	TMBH	28.4	28.3	28.2	27.1	27.0	26.9	26.1	25.9	25.7	37.5	37.2	37.1	34.4	34.2	34.0	32.9	32.5	32.2	
	SMBH	17.9	17.7	17.5	23.2	22.8	22.5	26.1	25.9	25.7	23.9	23.4	23.1	30.1	29.3	28.8	32.9	32.5	32.2	
	Power	2.84	2.81	2.78	2.84	2.81	2.77	2.83	2.80	2.77	3.64	3.55	3.52	3.63	3.54	3.51	3.62	3.54	3.51	
115°F (46.1°C)	TMBH	27.4	27.3	27.2	26.2	26.1	26.0	25.3	25.2	24.9	36.3	36.1	35.9	33.3	33.1	33.0	32.1	31.7	31.4	
	SMBH	17.3	17.2	17.0	22.7	22.3	22.0	25.3	25.2	24.9	23.5	23.0	22.7	29.7	28.9	28.5	32.1	31.7	31.4	
	Power	3.00	2.97	2.94	2.99	2.96	2.93	2.99	2.96	2.93	3.83	3.75	3.72	3.82	3.74	3.71	3.82	3.74	3.70	

PERFORMANCE DATA (Scroll Unit)

MODEL		RHLH-042TM/RAHM-042MS									RHLH-048TM/RAHM-048MS									
INDOOR TEMP OF		80.6°F (27.0°C) DB / 71.0°F (21.7°C) WB			80.6°F (27.0°C) DB / 66.2°F (19.0°C) WB			80.6°F (27°C) DB / 63.0°F (17.2°C) WB			80.6°F (27.0°C) DB / 71.0°F (21.7°C) WB			80.6°F (27.0°C) DB / 66.2°F (19.0°C) WB			80.6°F (27°C) DB / 63.0°F (17.2°C) WB			
DEPRESSION RATIO		High	Med	Low	High	Med	Low	High	Med	Low	High	Med	Low	High	Med	Low	High	Med	Low	
CFM AIR VOL.		1355	1290	1250	1355	1290	1250	1355	1290	1250	1495	1355	1195	1495	1355	1195	1495	1355	1195	
OUTDOOR TEMPERATURE	75°F (23.9°C)	TMBH	45.0	44.7	44.5	41.5	41.2	41.0	39.0	38.8	38.7	45.1	44.6	43.8	42.1	41.6	40.7	40.0	39.6	38.7
		SMBH	26.6	26.1	25.8	32.4	31.7	31.3	36.6	35.6	35.2	26.5	25.8	24.8	32.7	31.6	30.0	37.2	35.7	33.4
		Power	2.62	2.60	2.58	2.61	2.58	2.56	2.59	2.57	2.55	2.65	2.60	2.54	2.64	2.58	2.53	2.63	2.58	2.53
	80°F (26.7°C)	TMBH	44.2	43.8	43.7	40.8	40.5	40.3	38.4	38.2	38.0	44.4	43.9	43.2	41.5	41.0	40.2	39.4	39.0	38.2
		SMBH	26.2	25.7	25.5	32.1	31.4	30.9	36.3	35.4	34.8	26.2	25.5	24.5	32.5	31.3	29.7	36.8	35.3	33.2
		Power	2.75	2.73	2.71	2.73	2.71	2.69	2.72	2.70	2.68	2.79	2.74	2.68	2.78	2.73	2.67	2.77	2.72	2.67
	85°F (29.4°C)	TMBH	43.2	42.9	42.7	40.0	39.7	39.5	37.6	37.4	37.2	43.5	43.1	42.4	40.8	40.3	39.5	38.7	38.3	37.6
		SMBH	25.8	25.4	25.1	31.7	31.0	30.6	35.9	35.1	34.5	25.8	25.1	24.2	32.1	31.0	29.4	36.5	35.0	32.9
		Power	2.89	2.87	2.84	2.87	2.85	2.83	2.86	2.84	2.82	2.94	2.89	2.83	2.93	2.87	2.82	2.92	2.87	2.81
	90°F (32.3°C)	TMBH	42.2	41.9	41.7	39.0	38.8	38.6	36.7	36.5	36.4	42.5	42.1	41.4	39.9	39.4	38.7	37.9	37.5	36.8
		SMBH	25.4	25.0	24.7	31.2	30.6	30.2	35.5	34.7	34.2	25.4	24.7	23.8	31.7	30.5	29.0	36.2	34.6	32.5
		Power	3.03	3.01	2.99	3.01	2.99	2.97	3.00	2.98	2.96	3.09	3.04	2.99	3.08	3.03	2.98	3.07	3.02	2.97
	95°F (35.0°C)	TMBH	41.1	40.8	40.7	38.1	37.8	37.7	35.7	35.6	35.4	41.3	41.0	40.4	39.0	38.5	37.8	36.9	36.5	36.0
		SMBH	25.0	24.5	24.3	30.9	30.2	29.8	35.1	34.1	33.7	24.8	24.2	23.3	31.2	30.1	28.6	35.6	34.1	32.1
		Power	3.19	3.17	3.14	3.17	3.15	3.13	3.16	3.14	3.12	3.26	3.21	3.16	3.25	3.20	3.14	3.24	3.19	3.13
	100°F (37.8°C)	TMBH	40.0	39.7	39.6	37.1	36.9	36.7	34.8	34.6	34.5	40.2	39.9	38.8	37.9	37.5	36.8	35.9	35.5	35.0
		SMBH	24.5	24.1	23.8	30.4	29.8	29.4	34.8	33.9	33.3	24.3	23.7	22.5	30.7	29.6	28.1	35.2	33.7	31.7
		Power	3.35	3.33	3.31	3.34	3.31	3.29	3.32	3.30	3.28	3.44	3.39	3.33	3.43	3.37	3.32	3.42	3.36	3.31
	105°F (40.6°C)	TMBH	38.8	38.6	38.4	36.0	35.8	35.7	33.9	33.6	33.4	38.9	38.6	38.0	36.8	36.4	35.8	34.8	34.5	34.0
		SMBH	24.1	23.6	23.4	29.9	29.3	28.9	33.9	33.5	32.9	23.7	23.1	22.3	30.1	29.0	27.6	34.7	33.2	31.2
		Power	3.53	3.51	3.49	3.51	3.49	3.47	3.50	3.48	3.46	3.63	3.57	3.52	3.62	3.56	3.51	3.61	3.55	3.50
	110°F (43.3°C)	TMBH	37.7	37.4	37.3	34.9	34.8	34.6	33.1	32.7	32.4	37.6	37.4	36.9	35.7	35.3	34.7	33.8	33.4	32.9
		SMBH	23.6	23.2	22.9	29.6	28.8	28.4	33.1	32.7	32.4	23.1	22.6	21.8	29.6	28.5	27.1	33.8	32.7	30.8
		Power	3.72	3.70	3.68	3.71	3.68	3.66	3.70	3.67	3.65	3.83	3.78	3.73	3.82	3.77	3.72	3.81	3.76	3.70
115°F (46.1°C)	TMBH	36.5	36.3	36.1	33.8	33.6	33.5	32.2	31.8	31.6	36.3	36.0	35.6	34.5	34.2	33.6	32.9	32.3	31.8	
	SMBH	23.1	22.7	22.4	29.1	28.5	28.0	32.2	31.8	31.6	22.5	22.0	21.2	29.0	28.0	26.6	32.9	32.1	30.2	
	Power	3.93	3.91	3.88	3.91	3.89	3.87	3.90	3.88	3.86	4.05	4.00	3.94	4.04	3.99	3.94	4.03	3.98	3.92	
120°F (48.9°C)	TMBH	35.2	35.1	35.0	32.7	32.5	32.4	31.4	31.0	30.7	35.0	34.7	34.4	33.3	33.0	32.5	31.9	31.3	30.7	
	SMBH	22.6	22.2	22.0	28.8	28.0	27.6	31.4	31.0	30.7	21.8	21.3	20.6	28.3	27.4	26.0	31.9	31.3	29.5	
	Power	4.15	4.12	4.10	4.13	4.11	4.09	4.13	4.11	4.08	4.28	4.23	4.18	4.27	4.22	4.17	4.27	4.22	4.16	
125°F (51.7°C)	TMBH	34.0	33.9	33.7	31.5	31.4	31.3	30.5	30.1	29.9	33.6	33.4	33.1	32.2	31.9	31.4	30.9	30.4	29.6	
	SMBH	22.1	21.7	21.5	28.4	27.7	27.2	30.5	30.1	29.9	21.1	20.7	20.0	27.7	26.8	25.5	30.9	30.4	29.2	
	Power	4.38	4.36	4.34	4.37	4.35	4.33	4.37	4.34	4.32	4.53	4.48	4.43	4.53	4.48	4.42	4.52	4.47	4.42	

MODEL		RHLH-054TM/RAHM-054MS									RHLH-065TM/RAHM-054MS									
INDOOR TEMP OF		80.6°F (27.0°C) DB / 71.0°F (21.7°C) WB			80.6°F (27.0°C) DB / 66.2°F (19.0°C) WB			80.6°F (27°C) DB / 63.0°F (17.2°C) WB			80.6°F (27.0°C) DB / 71.0°F (21.7°C) WB			80.6°F (27.0°C) DB / 66.2°F (19.0°C) WB			80.6°F (27°C) DB / 63.0°F (17.2°C) WB			
DEPRESSION RATIO		High	Med	Low	High	Med	Low	High	Med	Low	High	Med	Low	High	Med	Low	High	Med	Low	
CFM AIR VOL.		1645	1450	1315	1645	1450	1315	1645	1450	1315	1990	1865	1740	1990	1865	1740	1990	1865	1740	
OUTDOOR TEMPERATURE	75°F (23.9°C)	TMBH	52.9	52.1	51.3	49.4	48.6	47.8	46.9	46.1	45.4	57.3	57.0	56.6	53.8	53.4	52.9	51.1	50.3	49.0
		SMBH	30.6	29.5	28.7	37.4	35.8	34.5	42.0	39.8	38.3	35.5	34.7	34.0	45.2	43.8	42.4	51.1	50.2	48.3
		Power	3.15	3.08	3.03	3.14	3.06	3.02	3.13	3.05	3.01	3.26	3.23	3.21	3.24	3.21	3.19	3.23	3.20	3.18
	80°F (26.7°C)	TMBH	51.9	51.0	50.4	48.5	47.6	46.9	46.2	45.3	44.6	55.9	55.6	55.3	53.0	52.3	51.8	50.2	49.4	48.9
		SMBH	30.1	29.1	28.3	37.0	35.3	34.0	42.0	39.5	37.9	34.8	34.1	33.4	44.9	43.3	41.9	50.2	49.4	47.9
		Power	3.31	3.24	3.19	3.29	3.22	3.18	3.29	3.21	3.17	3.42	3.39	3.37	3.42	3.37	3.35	3.39	3.36	3.33
	85°F (29.4°C)	TMBH	50.8	50.0	49.3	47.5	46.7	46.0	45.1	44.4	43.8	54.5	54.2	54.0	51.4	51.1	50.7	49.3	48.5	47.8
		SMBH	29.6	28.6	27.8	36.4	34.8	33.6	41.1	39.0	37.5	34.1	33.5	32.8	44.3	42.8	41.4	49.3	48.5	47.4
		Power	3.48	3.40	3.36	3.46	3.39	3.34	3.45	3.37	3.33	3.59	3.56	3.54	3.57	3.54	3.52	3.56	3.53	3.50
	90°F (32.3°C)	TMBH	49.6	48.8	48.3	46.5	45.1	45.0	44.1	43.4	42.9	53.0	52.8	52.6	50.2	49.9	49.6	48.3	47.6	46.8
		SMBH	29.1	28.1	27.4	36.0	34.1	33.1	40.7	38.6	37.0	33.3	32.7	32.1	43.8	42.4	40.9	48.3	47.6	46.8
		Power	3.66	3.58	3.54	3.64	3.56	3.51	3.62	3.55	3.51	3.77	3.74	3.72	3.75	3.72	3.70	3.74	3.71	3.68
	95°F (35.0°C)	TMBH	48.4	47.7	47.2	45.4	44.7	44.1	43.1	42.4	41.9	51.5	51.3	51.1	48.9	48.6	48.4	47.3	46.6	45.8
		SMBH	28.6	27.6	26.9	35.4	33.9	32.7	40.2	38.1	36.5	32.5	32.0	31.4	43.3	41.9	40.4	47.3	46.6	45.8
		Power	3.85	3.77	3.73	3.83	3.75	3.71	3.81	3.74	3.69	3.96	3.93	3.91	3.94	3.91	3.89	3.93	3.89	3.87
	100°F (37.8°C)	TMBH	47.1	46.5	46.4	44.3	43.6	43.1	42.0	41.4	40.9	49.9	49.8	49.6	47.6	47.4	47.1	46.2	45.6	44.9
		SMBH	28.0	27.1	26.4	34.9	33.3	32.2	39.7	37.6	36.1	31.7	31.2	30.7	42.8	41.4	40.0	46.2	45.6	44.9
		Power	4.05	3.97	3.93	4.03	3.95	3.91	4.01	3.93	3.89	4.16	4.13	4.10	4.14	4.11	4.09	4.13	4.10	4.07
	105°F (40.6°C)	TMBH	45.9	45.3	44.8	43.1	42.5	41.9	40.9	40.1	39.9	48.3	48.2	48.1	46.1	46.0	45.7	45.1	44.5	43.8
		SMBH	27.5	26.5	25.8	34.3	32.8	31.7	39.4	37.5	35.6	30.8	30.4	29.9	41.9	40.9	39.5	45.1	44.5	43.8
		Power	4.26	4.18	4.14	4.24	4.16	4.12	4.22	4.14	4.08	4.37	4.34	4.32	4.35	4.32	4.30	4.34	4.31	4.28
	110°F (43.3°C)	TMBH	44.5	44.0	43.6	42.0	41.4	40.9	39.7	39.3	38.8	46.7	46.6	46.5	44.8	44.7	44.4	44.0	43.4	42.8
		SMBH	26.9	26.0	25.3	33.8	32.2	31.1	38.7	36.7	35.1	29.9	29.5	29.1	41.5	40.3	39.0	44.0	43.4	42.8
		Power	4.48	4.41	4.36	4.46	4.39	4.34	4.44	4.37	4.32	4.59	4.56	4.54	4.57	4.54	4.52	4.57	4.53	4.51
115°F (46.1°C)	TMBH	43.1	42.7	42.3	40.8	40.2	39.7	38.6	37.8	37.7	45.0	44.9	44.8	43.4	43.2	43.0	42.8	42.3	41.7	
	SMBH	26.2	25.4	24.7	33.2	31.7	30.6	38.1	35.8	34.6	29.1	28.6	28.2	40.8	39.7	38.4	42.8	42.3	41.7	
	Power	4.72	4.64	4.60	4.70	4.62	4.58	4.68	4.60	4.55	4.82	4.79	4.77	4.81	4.78	4.75	4.80	4.77		

PERFORMANCE DATA (Scroll Unit)

MODEL		RHLH-065TM/RAHM-065MS									
INDOOR TEMP OF		80.6°F (27.0°C) DB / 71.0°F (21.7°C) WB			80.6°F (27.0°C) DB / 66.2°F (19.0°C) WB			80.6°F (27°C) DB / 63.0°F (17.2°C) WB			
		High	Med	Low	High	Med	Low	High	Med	Low	
DEPRESSION RATIO		0.14	0.16	0.18	0.14	0.16	0.18	0.14	0.16	0.18	
CFM AIR VOL.		1990	1865	1740	1990	1865	1740	1990	1865	1740	
OUTDOOR TEMPERATURE	75°F (23.9°C)	TMBH	70.3	69.6	68.8	64.4	63.7	63.1	60.4	59.9	59.3
		SMBH	41.5	40.5	39.4	51.2	49.5	47.8	57.5	55.6	53.6
		Power	4.22	4.16	4.13	4.20	4.15	4.12	4.19	4.14	4.11
	80°F (26.7°C)	TMBH	69.0	68.3	67.5	63.2	62.5	61.9	59.2	58.7	58.1
		SMBH	41.0	40.0	38.9	50.7	49.1	47.4	57.1	55.1	53.1
		Power	4.41	4.35	4.32	4.39	4.33	4.30	4.37	4.32	4.29
	85°F (29.4°C)	TMBH	67.5	66.8	66.1	61.8	61.7	60.6	58.0	57.5	57.2
		SMBH	40.5	39.4	38.4	50.2	48.7	47.0	56.4	54.6	52.8
		Power	4.60	4.55	4.52	4.59	4.53	4.50	4.57	4.52	4.49
	90°F (32.3°C)	TMBH	65.9	65.3	64.6	60.4	59.8	59.1	56.6	56.1	55.6
		SMBH	39.9	38.8	37.8	49.6	48.0	46.4	55.8	53.9	52.0
		Power	4.81	4.76	4.73	4.79	4.74	4.71	4.78	4.72	4.69
	95°F (35.0°C)	TMBH	64.3	63.7	63.0	58.7	58.3	57.7	55.2	54.7	54.2
		SMBH	39.3	38.2	37.2	49.1	47.4	45.8	55.0	53.2	51.4
		Power	5.03	4.98	4.95	5.01	4.96	4.93	5.00	4.94	4.90
	100°F (37.8°C)	TMBH	62.5	62.0	61.4	57.1	56.6	56.1	53.9	53.2	52.6
		SMBH	38.8	37.6	36.5	48.5	46.8	45.2	53.9	52.6	50.8
		Power	5.27	5.22	5.18	5.25	5.20	5.16	5.23	5.18	5.14
	105°F (40.6°C)	TMBH	60.6	60.1	59.5	55.4	54.9	54.6	52.7	51.7	51.1
		SMBH	38.3	37.2	36.1	47.8	46.2	44.6	52.7	51.7	50.1
		Power	5.51	5.46	5.43	5.50	5.45	5.41	5.48	5.42	5.39
	110°F (43.3°C)	TMBH	58.6	58.2	57.6	53.7	53.2	52.7	51.4	50.4	49.5
		SMBH	37.8	36.6	35.6	47.1	45.5	43.9	51.4	50.4	49.3
		Power	5.77	5.72	5.69	5.76	5.71	5.67	5.75	5.69	5.65
	115F (46.1C)	TMBH	56.7	56.3	55.7	51.9	51.4	51.0	49.9	49.0	48.1
		SMBH	37.1	36.0	35.0	46.2	44.8	43.2	49.9	49.0	48.1
		Power	6.04	5.99	5.96	6.03	5.98	5.95	6.02	5.97	5.93
	120F (48.9C)	TMBH	54.7	54.3	54.2	50.0	49.7	48.8	48.4	47.6	46.7
		SMBH	36.4	35.4	34.5	45.6	43.9	42.3	48.4	47.6	46.7
		Power	6.35	6.28	6.25	6.32	6.27	6.22	6.32	6.26	6.22
125F (51.7C)	TMBH	52.8	52.3	51.8	48.1	47.7	47.3	46.9	46.1	45.3	
	SMBH	35.6	34.6	33.6	44.7	43.2	41.7	46.9	46.1	45.3	
	Power	6.63	6.57	6.54	6.63	6.57	6.54	6.62	6.57	6.53	

Power: Total Unit Input Power (kW) When the entering air dry bulb temperature is other than 80.6°F, adjust the sensible capacity from the table by adding 1.1 x CFM X (1-DR) X (dbE-80.6)

DR: Depression Ratio

dbE: Entering Air Temperature in °F

PERFORMANCE DATA (Rotary Units)

MODEL		RHLH-012TO/RAHM-012TR									RHLH-018TO/RAHM-018TR									
INDOOR TEMP °F		80.6°F (27.0°C) DB / 71.0°F (21.7°C) WB			80.6°F (27.0°C) DB / 66.2°F (19.0°C) WB			80.6°F (27°C) DB / 63.0°F (17.2°C) WB			80.6°F (27.0°C) DB / 71.0°F (21.7°C) WB			80.6°F (27.0°C) DB / 66.2°F (19.0°C) WB			80.6°F (27°C) DB / 63.0°F (17.2°C) WB			
		High	Med	Low	High	Med	Low	High	Med	Low	High	Med	Low	High	Med	Low	High	Med	Low	
DEPRESSION RATIO		0.19	0.21	0.23	0.19	0.21	0.23	0.19	0.21	0.23	0.2	0.22	0.24	0.2	0.22	0.24	0.2	0.22	0.24	
CFM AIR VOL.		500	435	360	500	435	360	500	435	360	650	570	485	650	570	485	650	570	485	
OUTDOOR TEMPERATURE	75°F (23.9°C)	TMBH	14.0	13.7	13.3	12.9	12.6	12.3	12.0	11.9	11.6	21.5	21.0	20.4	19.7	19.2	18.7	18.4	18.1	17.6
		SMBH	8.3	8.0	7.6	10.2	9.7	9.1	11.4	10.8	10.0	12.6	12.0	11.4	15.2	14.4	13.4	17.0	16.0	14.8
		Power	0.76	0.75	0.75	0.77	0.76	0.75	0.77	0.76	0.75	1.15	1.13	1.12	1.16	1.14	1.13	1.16	1.15	1.14
	80°F (26.7°C)	TMBH	13.6	13.4	13.0	12.5	12.3	11.9	11.7	11.6	11.3	21.0	20.6	20.0	19.2	18.8	18.2	18.0	17.6	17.1
		SMBH	8.2	7.9	7.4	10.1	9.6	8.9	11.2	10.7	9.9	12.4	11.8	11.2	15.0	14.2	13.3	16.8	15.8	14.7
		Power	0.81	0.81	0.80	0.83	0.82	0.81	0.83	0.82	0.81	1.23	1.22	1.21	1.24	1.23	1.22	1.25	1.23	1.22
	85°F (29.4°C)	TMBH	13.3	13.1	12.7	12.2	12.0	11.7	11.5	11.2	11.0	20.5	20.1	19.5	18.7	18.3	17.8	17.5	17.2	16.7
		SMBH	8.1	7.8	7.3	9.9	9.4	8.8	11.1	10.5	9.8	12.2	11.6	11.0	14.8	14.0	13.1	16.6	15.6	14.5
		Power	0.86	0.86	0.85	0.88	0.87	0.86	0.88	0.87	0.87	1.31	1.30	1.29	1.32	1.31	1.30	1.33	1.32	1.30
	90°F (32.3°C)	TMBH	12.9	12.7	12.4	11.9	11.7	11.4	11.1	11.0	10.7	20.0	19.6	19.1	18.3	17.9	17.4	17.0	16.7	16.3
		SMBH	7.9	7.6	7.2	9.7	9.3	8.6	10.9	10.4	9.6	12.0	11.5	10.8	14.6	13.8	12.9	16.4	15.4	14.3
		Power	0.91	0.91	0.90	0.93	0.92	0.91	0.93	0.93	0.92	1.39	1.38	1.36	1.40	1.39	1.37	1.41	1.39	1.38
	95°F (35.0°C)	TMBH	12.6	12.4	12.1	11.6	11.4	11.1	10.9	10.7	10.4	19.5	19.1	18.6	17.8	17.4	16.9	16.5	16.1	15.9
		SMBH	7.8	7.5	7.1	9.6	9.1	8.5	10.7	10.2	9.5	11.8	11.3	10.6	14.4	13.6	12.7	16.2	15.2	14.1
		Power	0.96	0.95	0.95	0.98	0.97	0.96	0.98	0.98	0.97	1.47	1.45	1.44	1.48	1.46	1.45	1.48	1.47	1.46
	100°F (37.8°C)	TMBH	12.3	12.1	11.8	11.3	11.1	10.8	10.6	10.4	10.1	19.0	18.6	18.1	17.3	16.9	16.5	16.1	15.8	15.4
		SMBH	7.6	7.3	6.9	9.5	9.0	8.4	10.6	10.1	9.3	11.6	11.1	10.4	14.2	13.4	12.5	15.9	15.1	13.9
		Power	1.01	1.00	1.00	1.03	1.02	1.01	1.03	1.02	1.02	1.55	1.53	1.52	1.56	1.54	1.53	1.56	1.55	1.53
	105°F (40.6°C)	TMBH	11.9	11.7	11.5	11.0	10.8	10.5	10.4	10.1	9.8	18.4	18.1	17.6	16.8	16.5	16.0	15.7	15.3	15.0
		SMBH	7.5	7.2	6.8	9.3	8.8	8.2	10.4	9.9	9.2	11.4	10.9	10.2	14.1	13.2	12.3	15.7	14.9	13.8
		Power	1.06	1.05	1.05	1.08	1.07	1.06	1.08	1.07	1.07	1.63	1.62	1.61	1.64	1.63	1.61	1.64	1.63	1.61
	110°F (43.3°C)	TMBH	11.6	11.4	11.1	10.6	10.5	10.2	10.1	9.8	9.5	17.9	17.5	17.1	16.2	16.0	15.6	15.3	14.8	14.5
		SMBH	7.3	7.0	6.7	9.2	8.7	8.1	10.1	9.7	9.0	11.2	10.7	10.0	13.9	13.0	12.1	15.3	14.6	13.5
		Power	1.11	1.10	1.10	1.13	1.12	1.11	1.13	1.12	1.12	1.72	1.71	1.70	1.73	1.71	1.70	1.73	1.71	1.70
	115F (46.1C)	TMBH	11.2	11.0	10.8	10.3	10.2	9.9	9.8	9.5	9.3	17.3	17.0	16.5	15.7	15.4	15.1	14.9	14.4	14.0
		SMBH	7.2	6.9	6.5	9.0	8.6	8.0	9.8	9.5	8.9	11.0	10.4	9.8	13.7	12.8	11.9	14.9	14.4	13.3
		Power	1.16	1.16	1.15	1.18	1.17	1.17	1.19	1.18	1.17	1.82	1.81	1.79	1.82	1.81	1.79	1.82	1.81	1.79
	120F (48.9C)	TMBH	10.8	10.7	10.4	9.9	9.8	9.6	9.6	9.3	9.0	16.7	16.4	16.0	15.1	14.9	14.5	14.4	14.0	13.5
		SMBH	7.0	6.7	6.4	8.8	8.4	7.8	9.6	9.3	8.7	10.7	10.2	9.6	13.5	12.6	11.7	14.4	14.0	13.1
		Power	1.22	1.22	1.21	1.24	1.23	1.22	1.24	1.24	1.23	1.93	1.91	1.90	1.93	1.91	1.90	1.92	1.91	1.89
125F (51.7C)	TMBH	10.4	10.3	10.0	9.5	9.5	9.2	9.3	9.0	8.7	16.0	15.7	15.4	14.5	14.3	14.0	14.0	13.5	13.0	
	SMBH	6.9	6.6	6.2	8.7	8.2	7.7	9.3	9.0	8.6	10.5	10.0	9.4	13.2	12.4	11.5	14.0	13.5	12.9	
	Power	1.29	1.28	1.27	1.30	1.29	1.29	1.31	1.30	1.29	2.05	2.03	2.02	2.04	2.03	2.01	2.04	2.02	2.00	



PERFORMANCE DATA (Rotary Units)

MODEL		RHLH-024TO/RAHM-024TR									RHLH-030TO/RAHM-030TR									
INDOOR TEMP °F		80.6°F (27.0°C) DB / 71.0°F (21.7°C) WB			80.6°F (27.0°C) DB / 66.2°F (19.0°C) WB			80.6°F (27°C) DB / 63.0°F (17.2°C) WB			80.6°F (27.0°C) DB / 71.0°F (21.7°C) WB			80.6°F (27.0°C) DB / 66.2°F (19.0°C) WB			80.6°F (27°C) DB / 63.0°F (17.2°C) WB			
DEPRESSION RATIO		High	Med	Low	High	Med	Low	High	Med	Low	High	Med	Low	High	Med	Low	High	Med	Low	
CFM AIR VOL.		0.19	0.21	0.23	0.19	0.21	0.23	0.19	0.21	0.23	0.2	0.22	0.24	0.2	0.22	0.24	0.2	0.22	0.24	
OUTDOOR TEMPERATURE	75°F (23.9°C)	TM BH	25.3	25.2	25.1	23.1	23.0	22.9	21.5	21.4	21.4	29.3	29.0	28.8	26.8	26.5	26.3	25.0	24.8	24.6
		SM BH	15.1	15.0	14.8	18.4	18.2	17.9	20.7	20.4	20.1	17.2	16.8	16.5	20.8	20.3	19.8	23.3	22.7	22.1
		Power	1.31	1.31	1.30	1.32	1.32	1.31	1.33	1.33	1.32	1.64	1.63	1.62	1.65	1.64	1.63	1.66	1.65	1.64
	80°F (26.7°C)	TM BH	24.7	24.6	24.5	22.5	22.4	22.3	20.9	20.9	20.8	28.6	28.4	28.1	26.1	25.9	25.7	24.4	24.2	24.0
		SM BH	14.9	14.8	14.6	18.2	18.0	17.7	20.4	20.2	19.8	16.9	16.6	16.3	20.6	20.0	19.6	23.0	22.4	21.9
		Power	1.41	1.40	1.40	1.42	1.41	1.41	1.42	1.42	1.42	1.75	1.74	1.73	1.76	1.75	1.74	1.76	1.75	1.74
	85°F (29.4°C)	TM BH	24.1	24.0	23.8	21.9	21.8	21.7	20.4	20.3	20.2	28.0	27.7	27.5	25.5	25.3	25.0	23.8	23.6	23.4
		SM BH	14.7	14.5	14.3	17.9	17.7	17.5	20.2	20.0	19.6	16.7	16.3	16.0	20.3	19.8	19.3	22.8	22.2	21.6
		Power	1.50	1.50	1.49	1.51	1.50	1.50	1.51	1.51	1.51	1.85	1.84	1.83	1.86	1.85	1.84	1.87	1.86	1.85
	90°F (32.3°C)	TM BH	23.4	23.3	23.2	21.3	21.3	21.2	19.9	19.8	19.7	27.3	27.0	26.8	24.8	24.6	24.4	23.1	22.9	22.8
		SM BH	14.4	14.3	14.1	17.7	17.5	17.2	19.8	19.6	19.4	16.4	16.1	15.7	20.0	19.5	19.1	22.5	21.9	21.3
		Power	1.59	1.59	1.58	1.60	1.59	1.59	1.60	1.60	1.60	1.96	1.95	1.94	1.97	1.96	1.95	1.97	1.96	1.95
	95°F (35.0°C)	TM BH	22.8	22.7	22.6	21.0	20.9	20.9	19.4	19.3	19.1	26.6	26.3	26.1	24.2	24.0	23.8	22.5	22.3	22.1
		SM BH	14.2	14.0	13.9	17.5	17.3	17.0	19.4	19.3	19.1	16.1	15.8	15.5	19.8	19.3	18.8	22.2	21.6	21.1
		Power	1.68	1.68	1.67	1.69	1.68	1.68	1.69	1.69	1.68	2.07	2.06	2.05	2.07	2.06	2.05	2.07	2.06	2.05
	100°F (37.8°C)	TM BH	22.2	22.1	22.0	20.1	20.0	20.0	19.0	18.9	18.7	25.8	25.6	25.4	23.5	23.3	23.1	21.9	21.7	21.5
		SM BH	13.9	13.8	13.6	17.3	17.1	16.8	19.0	18.9	18.7	15.9	15.5	15.2	19.5	19.0	18.5	21.8	21.3	20.8
		Power	1.77	1.77	1.76	1.78	1.77	1.77	1.78	1.77	1.77	2.18	2.17	2.16	2.18	2.17	2.16	2.18	2.17	2.16
	105°F (40.6°C)	TM BH	21.5	21.4	21.3	19.5	19.4	19.4	18.5	18.4	18.2	25.1	24.9	24.7	22.8	22.6	22.4	21.4	21.1	20.9
		SM BH	13.7	13.5	13.4	17.1	16.9	16.6	18.5	18.4	18.2	15.6	15.3	14.9	19.3	18.7	18.2	21.3	21.0	20.5
		Power	1.87	1.86	1.86	1.87	1.87	1.86	1.87	1.87	1.86	2.30	2.29	2.28	2.30	2.29	2.28	2.30	2.28	2.27
	110°F (43.3°C)	TM BH	20.8	20.7	20.6	18.9	18.8	18.7	18.1	17.9	17.8	24.3	24.1	23.9	22.0	21.9	21.7	20.8	20.5	20.2
		SM BH	13.4	13.3	13.1	16.8	16.6	16.4	18.1	17.9	17.8	15.3	15.0	14.6	19.0	18.5	18.0	20.8	20.5	20.1
		Power	1.97	1.97	1.96	1.97	1.97	1.96	1.97	1.97	1.96	2.43	2.42	2.41	2.43	2.42	2.40	2.42	2.41	2.40
115°F (46.1°C)	TM BH	20.1	20.0	19.9	18.2	18.1	18.1	17.6	17.5	17.3	23.5	23.3	23.1	21.2	21.1	21.0	20.2	19.9	19.7	
	SM BH	13.2	13.0	12.9	16.6	16.4	16.1	17.6	17.5	17.3	15.0	14.7	14.3	18.7	18.2	17.7	20.2	19.9	19.6	
	Power	2.08	2.07	2.07	2.08	2.07	2.07	2.08	2.07	2.07	2.57	2.56	2.55	2.56	2.55	2.54	2.56	2.54	2.53	
120°F (48.9°C)	TM BH	19.4	19.3	19.2	17.5	17.4	17.4	17.1	16.9	16.8	22.6	22.4	22.3	20.4	20.3	20.1	19.6	19.4	19.1	
	SM BH	12.9	12.8	12.6	16.3	16.2	15.9	17.1	16.9	16.8	14.7	14.3	14.0	18.4	17.9	17.5	19.6	19.4	19.1	
	Power	2.20	2.19	2.19	2.19	2.18	2.18	2.19	2.19	2.18	2.73	2.72	2.71	2.72	2.70	2.69	2.71	2.69	2.68	
125°F (51.7°C)	TM BH	18.6	18.5	18.5	16.7	16.7	16.6	16.5	16.4	16.3	21.7	21.5	21.3	19.6	19.4	19.3	19.0	18.7	18.5	
	SM BH	12.6	12.5	12.3	16.1	15.9	15.6	16.5	16.4	16.3	14.3	14.0	13.7	18.1	17.6	17.1	19.0	18.7	18.5	
	Power	2.33	2.32	2.32	2.32	2.32	2.31	2.32	2.31	2.31	2.91	2.89	2.89	2.88	2.87	2.86	2.88	2.86	2.85	

MODEL		RHLH-042TO/RAHM-036TR									
INDOOR TEMP °F		80.6°F (27.0°C) DB / 71.0°F (21.7°C) WB			80.6°F (27.0°C) DB / 66.2°F (19.0°C) WB			80.6°F (27°C) DB / 63.0°F (17.2°C) WB			
DEPRESSION RATIO		High	Med	Low	High	Med	Low	High	Med	Low	
CFM AIR VOL.		0.19	0.21	0.23	0.19	0.21	0.23	0.19	0.21	0.23	
OUTDOOR TEMPERATURE	75°F (23.9°C)	TM BH	37.1	36.8	36.6	33.5	33.3	33.1	31.7	31.3	30.9
		SM BH	23.2	22.8	22.4	28.8	28.1	27.4	31.7	31.3	30.9
		Power	1.97	1.96	1.95	1.99	1.99	1.97	2.00	2.00	1.99
	80°F (26.7°C)	TM BH	36.2	36.0	35.8	32.7	32.6	32.4	31.1	30.8	30.4
		SM BH	22.9	22.5	22.1	28.5	27.9	27.1	31.1	30.8	30.4
		Power	2.09	2.09	2.08	2.11	2.11	2.10	2.12	2.12	2.11
	85°F (29.4°C)	TM BH	35.4	35.2	34.9	31.9	31.8	31.6	30.5	30.2	29.8
		SM BH	22.6	22.2	21.8	28.1	27.5	26.8	30.5	30.2	29.8
		Power	2.21	2.21	2.20	2.23	2.23	2.21	2.24	2.24	2.23
	90°F (32.3°C)	TM BH	34.5	34.3	34.0	31.1	30.9	30.7	29.9	29.6	29.2
		SM BH	22.3	21.9	21.4	27.8	27.2	26.4	29.9	29.6	29.2
		Power	2.33	2.33	2.32	2.35	2.35	2.33	2.36	2.35	2.34
	95°F (35.0°C)	TM BH	33.5	33.3	33.1	30.1	30.0	29.9	29.2	28.9	28.5
		SM BH	21.9	21.5	21.1	27.6	26.9	26.2	29.2	28.9	28.5
		Power	2.46	2.45	2.44	2.47	2.47	2.45	2.47	2.47	2.46
	100°F (37.8°C)	TM BH	32.5	32.3	32.1	29.2	29.1	28.9	28.5	28.2	27.9
		SM BH	21.5	21.2	20.7	27.1	26.7	25.9	28.5	28.2	27.9
		Power	2.58	2.58	2.57	2.59	2.59	2.57	2.59	2.59	2.58
	105°F (40.6°C)	TM BH	31.4	31.3	31.1	28.2	28.1	28.0	27.8	27.5	27.1
		SM BH	21.2	20.8	20.3	26.9	26.2	25.6	27.8	27.5	27.1
		Power	2.72	2.71	2.70	2.72	2.72	2.70	2.72	2.72	2.70
	110°F (43.3°C)	TM BH	30.3	30.2	30.0	27.2	27.1	27.0	27.0	26.7	26.4
		SM BH	20.8	20.4	20.0	26.5	25.9	25.2	27.0	26.7	26.4
		Power	2.87	2.86	2.85	2.86	2.86	2.84	2.86	2.86	2.84
115°F (46.1°C)	TM BH	29.2	29.1	28.9	26.2	26.1	26.0	26.2	25.9	25.6	
	SM BH	20.4	20.0	19.6	26.2	25.6	24.9	26.2	25.9	25.6	
	Power	3.02	3.02	3.00	3.02	3.01	3.00	3.02	3.01	2.99	
120°F (48.9°C)	TM BH	28.1	27.9	27.8	25.4	25.1	24.9	25.4	25.1	24.8	
	SM BH	20.0	19.6	19.2	25.4	25.1	24.6	25.4	25.1	24.8	
	Power	3.20	3.19	3.18	3.19	3.18	3.16	3.19	3.18	3.16	
125°F (51.7°C)	TM BH	26.9	26.8	26.6	24.5	24.3	24.0	24.5	24.3	24.0	
	SM BH	19.5	19.2	18.7	24.5	24.3	24.0	24.5	24.3	24.0	
	Power	3.40	3.39	3.37	3.38	3.37	3.35	3.38	3.37	3.35	

Power: Total Unit Input Power (kW)
 DR: Depression Ratio
 dbE: Entering Air Temperature in °F

When the entering air dry bulb temperature is other than 80.6°F, adjust the sensible capacity from the table by adding 1.1 x CFM X (1-DR) X (dbE-80.6)

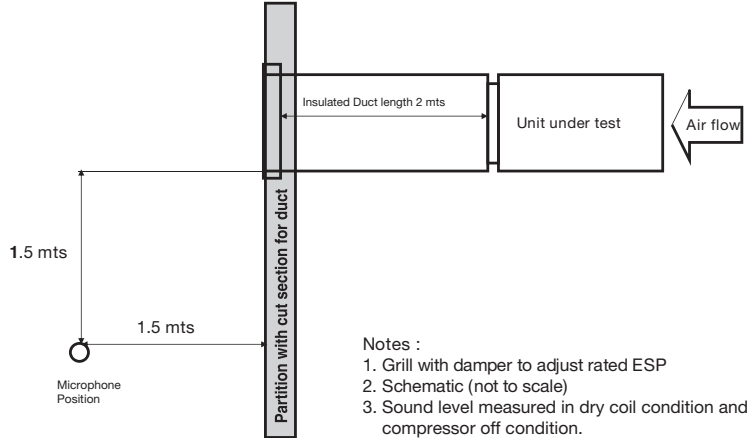


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SOUND LEVEL DATA

Model	Speed	1/1 Octave Sound Pressure (dB, ref 20Pa)								Overall	
		63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz	dB	dBA
RHLH-012TO	1	48	48	43	40	36	29	22	15	58	42
	2	54	46	41	39	36	29	22	15	59	41
	3	47	44	40	39	34	28	20	15	57	40
	4	55	45	39	38	34	27	19	15	60	39
	5	49	45	38	38	33	25	18	14	58	39
RHLH-018TO	1	48	45	42	39	36	27	20	15	56	41
	2	49	43	41	38	34	26	18	14	56	39
	3	48	42	40	37	33	25	17	14	55	38
	4	48	42	39	37	33	25	18	14	55	38
	5	44	41	38	36	33	26	18	14	55	38
RHLH-024 TM RHLH-024TO	1	48	50	43	41	35	23	17	14	56	42
	2	50	49	43	41	34	25	19	14	55	41
	3	49	49	42	40	34	24	18	14	55	41
RHLH-030 TM RHLH-030TO	1	51	51	52	49	40	28	21	17	60	49
	2	51	51	51	48	39	31	24	16	59	48
	3	51	50	50	47	38	29	22	16	59	47
	4	51	50	49	46	39	31	24	16	58	46
	5	51	49	48	44	37	29	22	15	58	45
RHLH-036 TM	1	53	57	51	46	42	35	30	21	61	49
	2	51	56	51	45	42	34	30	20	60	48
	3	51	55	50	45	41	34	29	20	60	47
	4	51	54	49	44	41	33	28	19	59	46
	5	49	52	48	43	41	34	29	19	58	46
RHLH-042 TM RHLH-042TO	1	52	53	51	44	42	36	31	21	59	47
	2	50	54	49	44	41	34	29	19	58	47
	3	51	52	48	43	41	34	30	20	59	46
	4	52	51	48	43	40	32	27	18	58	45
	5	52	50	47	42	40	33	28	18	57	45
RHLH-048TM	1	56	61	53	51	45	42	39	29	65	53
	2	54	59	51	49	44	40	36	26	66	51
	3	57	58	49	47	42	39	35	25	67	49
	4	53	56	48	47	41	38	33	23	63	48
	5	53	55	46	45	41	37	33	22	62	47
RHLH-054TM	1	56	61	53	51	45	42	39	29	65	53
	2	54	59	51	49	44	40	36	26	66	51
	3	57	58	49	47	42	39	35	25	67	49
	4	53	56	48	47	41	38	33	23	63	48
	5	53	55	46	45	41	37	33	22	62	47
RHLH-065TM	1	56	59	56	52	46	41	36	29	63	53
	2	55	58	55	51	46	41	36	29	63	53
	3	55	56	53	49	46	43	39	31	62	52
	4	56	56	52	49	45	43	38	30	63	51
	5	54	55	51	48	45	42	37	29	62	51

Sound Testing Arrangement



AIR FLOW PERFORMANCE DATA - RHLH

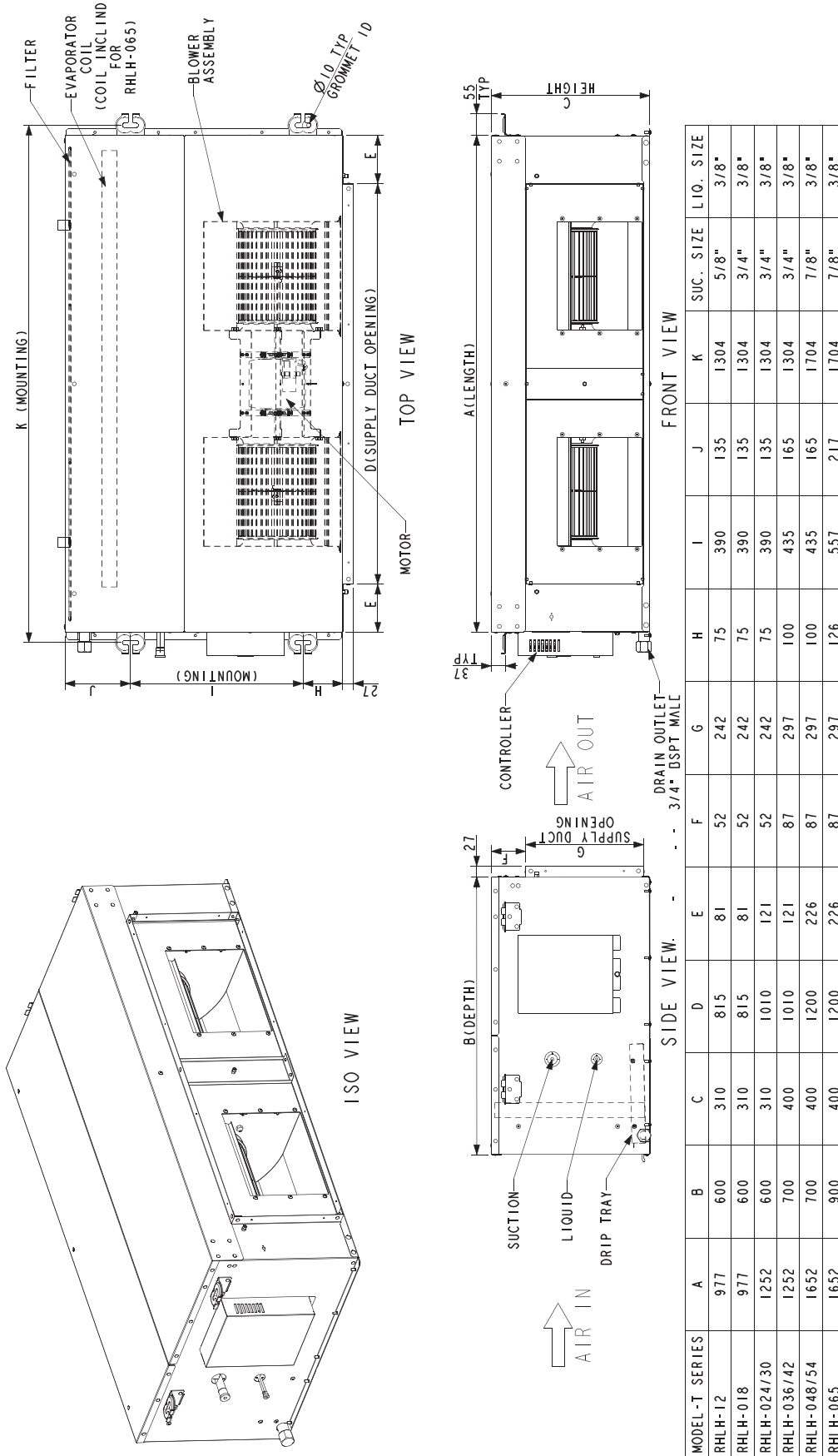
MODEL	BLOWER MOTOR SPEED	AIR FLOW AND POWER	CFM @ EXTERNAL STATIC PRESSURE (Inches of Water)						
			0	0.1	0.15	0.2	0.3	0.4	
RHLH-012TO	5	CFM POWER	455 50	360 45	290 40	-	-	-	
	4	CFM POWER	510 55	435 50	340 45	-	-	-	
	3	CFM POWER	575 65	500 60	400 50	-	-	-	
	2	CFM POWER	675 80	590 70	520 60	-	-	-	
	1	CFM POWER	795 95	680 85	600 80	-	-	-	
RHLH-018TO	5	CFM POWER	460 50	340 40	-	-	-	-	
	4	CFM POWER	515 50	390 45	310 40	-	-	-	
	3	CFM POWER	580 60	485 50	360 50	-	-	-	
	2	CFM POWER	675 70	570 65	435 60	280 50	-	-	
	1	CFM POWER	785 90	650 80	560 70	290 60	-	-	
RHLH-024TM RHLH-024TO	3	CFM POWER	890 90	745 80	645 70	425 60	-	-	
	2	CFM POWER	925 95	770 85	665 75	450 65	-	-	
	1	CFM POWER	955 100	790 90	685 80	470 70	-	-	
	RHLH-030TM RHLH-030TO	5	CFM POWER	120 130	115 125	110 120	105 115	100 110	-
		4	CFM POWER	890 130	795 125	745 120	695 115	520 110	-
3		CFM POWER	930 140	840 135	795 130	740 125	585 120	-	
2		CFM POWER	980 150	890 145	845 140	790 135	640 130	-	
1		CFM POWER	1030 170	945 160	900 155	845 150	690 140	-	
RHLH-036TM	5	CFM POWER	1360 200	1240 170	1170 180	1075 140	655 100	-	
	4	CFM POWER	1440 210	1300 180	1225 170	1125 150	720 110	-	
	3	CFM POWER	1540 220	1360 190	1275 180	1170 160	750 120	-	
	2	CFM POWER	1600 230	1430 200	1330 190	1225 180	845 140	-	
	1	CFM POWER	1680 275	1490 260	1400 250	1290 240	890 210	-	
RHLH-042TM RHLH-042TO	5	CFM POWER	1355 190	1225 160	1145 150	1045 140	615 95	-	
	4	CFM POWER	1420 200	1280 180	1200 165	1100 150	635 100	-	
	3	CFM POWER	1485 210	1330 185	1250 170	1145 160	705 120	-	
	2	CFM POWER	1560 220	1385 190	1290 180	1185 170	720 130	-	
	1	CFM POWER	1635 270	1455 250	1355 240	1235 230	785 190	-	
RHLH-048TM	5	CFM POWER	1250 240	1220 220	1195 215	1150 200	930 160	490 110	
	4	CFM POWER	1400 260	1380 250	1355 240	1315 230	1055 180	565 120	
	3	CFM POWER	1550 300	1525 280	1495 265	1450 250	1190 200	645 135	
	2	CFM POWER	1900 360	1795 320	1720 300	1645 280	1350 230	755 160	
	1	CFM POWER	2280 415	2080 380	1980 360	1870 340	1615 300	1055 245	
RHLH-054TM	5	CFM POWER	1250 240	1220 220	1195 215	1150 200	930 160	490 110	
	4	CFM POWER	1400 260	1380 250	1355 240	1315 230	1055 180	565 120	
	3	CFM POWER	1550 300	1525 280	1495 265	1450 250	1190 200	645 135	
	2	CFM POWER	1900 360	1795 320	1720 300	1645 280	1350 230	755 160	
	1	CFM POWER	2280 415	2080 380	1980 360	1870 340	1615 300	1055 245	
RHLH-065TM	5	CFM POWER	1710 335	1680 310	1650 300	1590 285	1320 240	790 180	
	4	CFM POWER	1930 380	1865 350	1815 340	1740 320	1430 270	870 200	
	3	CFM POWER	2140 420	2025 385	1955 370	1865 350	1570 300	950 230	
	2	CFM POWER	2350 470	2185 440	2095 420	1990 400	1705 360	1030 290	
	1	CFM POWER	2500 545	2300 520	2190 500	2070 490	1780 450	1090 400	

* Air flow at dry coil condition and at standard T1 ambient temperature condition
 Highlighted speeds are connected from factory.



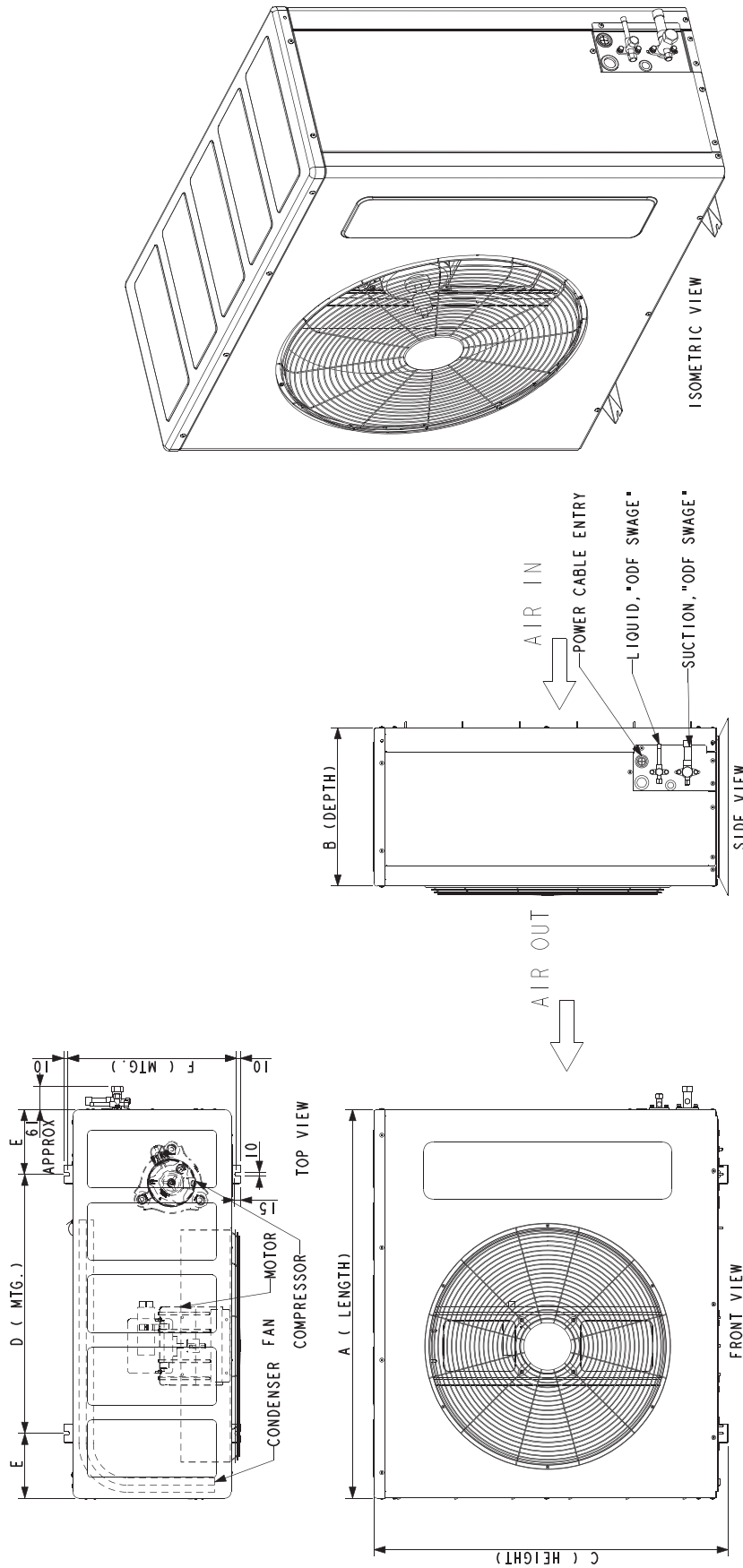
GENERAL ARRANGEMENT DRAWING

Indoor Units.



GENERAL ARRANGEMENT DRAWING

Outdoor Units.



MODEL - 50Hz	A	B	C	D	E	F	SUCTION CONNECTION	LIQUID CONNECTION	FAN DIA
RAHM-012	850	310	790	595	125	350	5/8"	3/8"	20"
RAHM-018/024/030	850	310	790	595	125	350	3/4"	3/8"	20"
RAHM-036/042	1020	416	960	680	170	445	3/4"	3/8"	24"
RAHM-048	1020	416	960	680	170	445	7/8"	3/8"	24"
RAHM-054/065	1020	416	1045	680	170	445	7/8"	3/8"	26"



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PIPE SIZE CHART

Outdoor Unit ABOVE Indoor Unit																
Single Stage	Liquid Line Size [mm]	Suction Line Size [mm]	Equivalent Length in Meters													
			Condition - A			Condition - B			Condition - C							
			15.5-22.5	23-45	38-45	45-75	75-90	45.5-52.5	53-60	61.5-67.5	68-75	75.5-82.5	83-90			
Maximum Vertical Separation / Capacity Multiplier																
	1/4" [6.35]	5/8" [15.88]	15 / 1.00	22.5 / 0.99	33.5 / 0.99	40 / 0.98	N/A	N/A	N/A	N/A	52.5 / 0.97	N/A	N/A	N/A	N/A	N/A
RAHM-024TS	5/16" [7.94]	5/8" [15.88]	15 / 1.00	22.5 / 0.99	33.5 / 0.98	40 / 0.98	45 / 0.96	45 / 0.95	45 / 0.96	58 / 0.97	52.5 / 0.97	56 / 0.96	55 / 0.96	52.5 / 0.96	52.5 / 0.96	52.5 / 0.95
	3/8" [9.52.5]	5/8" [15.88]	15 / 1.00	22.5 / 0.99	33.5 / 0.98	40 / 0.98	45 / 0.96	45 / 0.95	45 / 0.96	60 / 0.97	52.5 / 0.97	60 / 0.96	60 / 0.96	60 / 0.96	60 / 0.96	60 / 0.95
RAHM-030TS	1/4" [6.35]	5/8" [15.88]	15 / 1.00	22.5 / 0.99	33.5 / 0.98	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16" [7.94]	5/8" [15.88]	15 / 1.00	22.5 / 0.99	33.5 / 0.98	40 / 0.97	45 / 0.95	45 / 0.95	45 / 0.96	55 / 0.96	52 / 0.97	50 / 0.96	50 / 0.95	47 / 0.95	N/A	N/A
RAHM-036TS	3/8" [9.52.5]	5/8" [15.88]	15 / 1.00	22.5 / 0.99	33.5 / 0.98	40 / 0.97	45 / 0.95	45 / 0.95	45 / 0.96	60 / 0.96	52.5 / 0.97	60 / 0.96	60 / 0.95	60 / 0.95	60 / 0.95	60* / 0.94
	5/16" [7.94]	3/4" [19.06]	15 / 1.00	22.5 / 0.99	33.5 / 0.99	40 / 0.98	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8" [9.52.5]	3/4" [19.06]	15 / 1.00	22.5 / 0.99	33.5 / 0.99	40 / 0.98	45 / 0.97	45 / 0.96	45 / 0.96	60 / 0.98	52.5 / 0.98	60 / 0.97	60 / 0.97	60* / 0.97	60* / 0.97	60* / 0.96
	5/16" [7.94]	5/8" [15.88]	15 / 0.98	22.5 / 0.97	33.5 / 0.96	40 / 0.93	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RAHM-042TS	3/8" [9.52.5]	5/8" [15.88]	15 / 0.98	22.5 / 0.97	33.5 / 0.96	40 / 0.93	45 / 0.90	45 / 0.88	45 / 0.90	60 / 0.91	52.5 / 0.93	60 / 0.91	60 / 0.90	60* / 0.89	60* / 0.88	60* / 0.88
RAHM-042MS	5/16" [7.94]	3/4" [19.06]	15 / 1.00	22.5 / 0.99	33.5 / 0.99	40 / 0.98	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8" [9.52.5]	3/4" [19.06]	15 / 1.00	22.5 / 1.00	33.5 / 0.99	40 / 0.97	45 / 0.97	45 / 0.96	45 / 0.96	60 / 0.98	52.5 / 0.96	60 / 0.98	60 / 0.97	60* / 0.96	60* / 0.96	60* / 0.96
RAHM-048MS	5/16" [7.94]	3/4" [19.06]	15 / 1.00	22.5 / 0.99	33.5 / 0.99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8" [9.52.5]	7/8" [22.22.5]	15 / 1.00	22.5 / 1.00	33.5 / 1.00	40 / 0.98	45 / 0.96	45 / 0.95	45 / 0.95	60 / 0.97	52.5 / 0.98	60 / 0.97	60* / 0.96	60* / 0.96	60* / 0.96	60* / 0.95
	5/16" [7.94]	7/8" [22.22.5]	15 / 1.00	22.5 / 1.00	33.5 / 1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8" [9.52.5]	7/8" [22.22.5]	15 / 1.00	22.5 / 1.00	33.5 / 1.00	40 / 1.00	45 / 0.96	45 / 0.95	45 / 0.95	60 / 0.99	52.5 / 0.99	60 / 0.99	60* / 0.96	60* / 0.96	60* / 0.95	60* / 0.95
	3/8" [9.52.5]	3/4" [19.06]	15 / 0.98	22.5 / 0.97	33.5 / 0.96	40 / 0.95	45 / 0.92	45 / 0.91	45 / 0.91	60* / 0.93	52.5 / 0.94	60* / 0.93	60* / 0.92	58* / 0.92	52* / 0.92	47* / 0.91
RAHM-054MS	1/2" [12.71]	3/4" [19.06]	15 / 0.98	22.5 / 0.97	33.5 / 0.96	40 / 0.95	45 / 0.92	45 / 0.91	45 / 0.91	60 / 0.93	52.5 / 0.94	60 / 0.93	60 / 0.92	60* / 0.92	60* / 0.91	60* / 0.91
	3/8" [9.52.5]	7/8" [22.22.5]	15 / 1.00	22.5 / 0.98	33.5 / 0.98	40 / 0.97	45 / 0.96	45 / 0.96	45 / 0.96	60* / 0.97	52.5 / 0.97	60* / 0.97	60* / 0.96	58* / 0.96	52* / 0.96	47* / 0.96
	1/2" [12.71]	7/8" [22.22.5]	15 / 1.00	22.5 / 0.98	33.5 / 0.98	40 / 0.97	45 / 0.96	45 / 0.96	45 / 0.96	60 / 0.97	52.5 / 0.97	60 / 0.97	60 / 0.96	60* / 0.96	60* / 0.96	60* / 0.96
	3/8" [9.52.5]	3/4" [19.06]	15 / 0.98	22.5 / 0.96	33.5 / 0.95	40 / 0.93	45 / 0.90	N/A	N/A	60* / 0.92	52.5 / 0.92	60* / 0.92	55* / 0.91	49* / 0.90	N/A	N/A
RAHM-065MS	1/2" [12.71]	3/4" [19.06]	15 / 0.98	22.5 / 0.96	33.5 / 0.95	40 / 0.93	45 / 0.90	45 / 0.89	45 / 0.90	60 / 0.92	52.5 / 0.92	60 / 0.92	60 / 0.91	60* / 0.90	60* / 0.89	60* / 0.89
	3/8" [9.52.5]	7/8" [22.22.5]	15 / 1.00	22.5 / 0.99	33.5 / 0.98	40 / 0.97	45 / 0.95	N/A	N/A	60* / 0.96	52.5 / 0.97	60* / 0.96	55* / 0.96	49* / 0.95	N/A	N/A
	1/2" [12.71]	7/8" [22.22.5]	15 / 1.00	22.5 / 0.99	33.5 / 0.98	40 / 0.97	45 / 0.95	45 / 0.95	45 / 0.95	60 / 0.96	52.5 / 0.97	60 / 0.96	60 / 0.96	60* / 0.95	60* / 0.95	60* / 0.94

Note: This chart is applicable for ODU with scroll compressor only.

Light Gray - (<45m vertical separation)

Dark Gray - Use Oil Separator and Crank case heater. (Less than 45m vertical separation)

Black - Use Oil Separator, Crank case heater, Hard Start Kit and Non-bleed TXV.

Not Recommended

* Applications with asterisks (*) require a minimum of 1.5m vertical separation.

Condition	Total Equivalent Length	Max. Vertical Separation
A	3 ~ 45	<33.5
B	50.1 ~ 90	34 ~ 45
C	50.1 ~ 90	45.1 ~ 60



PIPE SIZE CHART

Single Stage	Liquid Line Size [mm]	Suction Line Size [mm]	Outdoor Unit BELOW Indoor Unit														
			Equivalent Length in Meter														
			<15	15.5-22.5	23-30	30.5-37.5	38 - 45	45.5-52.5	53-60	61.5-67.5	68-75	75.6-82.5	83-90				
RAHM-024TS	5/16" [7.94]	5/8" [15.88]	15/0.99	21.0/0.99	18/0.98	13.5/0.98	10.5/0.98	60.97	3/0.97	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8" [9.52.5]	5/8" [15.88]	15/0.99	22.5/0.99	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96
	5/16" [7.94]	3/4" [19.06]	15/1.00	21.0/1.00	18/1.00	13.5/1.00	10.5/0.99	60.99	3/0.99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8" [9.52.5]	3/4" [19.06]	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/1.00	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99
RAHM-030TS	5/16" [7.94]	5/8" [15.88]	15/1.00	13.5/0.99	25/0.98	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8" [9.52.5]	5/8" [15.88]	15/1.00	22.5/0.99	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.95	24.5/0.94	24.5/0.94	24.5/0.94	24.5/0.94	24.5/0.94	24.5/0.94	24.5/0.94	24.5/0.94
	5/16" [7.94]	3/4" [19.06]	15/1.00	13.5/1.00	25/1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8" [9.52.5]	3/4" [19.06]	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99
RAHM-036TS	5/16" [7.94]	5/8" [15.88]	12/09.8	3/0.97	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8" [9.52.5]	5/8" [15.88]	15/0.98	22.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.95	24.5/0.94	24.5/0.93	24.5/0.93	24.5/0.93	24.5/0.93	24.5/0.93	24.5/0.93	24.5/0.93	24.5/0.93
	5/16" [7.94]	3/4" [19.06]	12/1.00	3/0.99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8" [9.52.5]	3/4" [19.06]	15/1.00	22.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.98
RAHM-042TS RAHM-042MS	5/16" [7.94]	3/4" [19.06]	10.5/1.00	10/0.99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8" [9.52.5]	3/4" [19.06]	15/1.00	22.5/0.99	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.97
	1/2" [12.71]	3/4" [19.06]	15/1.00	22.5/0.99	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.97
	3/8" [9.52.5]	7/8" [22.23]	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/1.00	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99
RAHM-048MS	1/2" [12.71]	7/8" [22.23]	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/1.00	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96
	3/8" [9.52.5]	7/8" [22.23]	15/0.99	22.5/0.99	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96
	1/2" [12.71]	7/8" [22.23]	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/1.00	24.5/1.00	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99
	3/8" [9.52.5]	7/8" [22.23]	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/1.00	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99
RAHM-054MS	1/2" [12.71]	3/4" [19.06]	15/0.99	22.5/0.99	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96
	3/8" [9.52.5]	3/4" [19.06]	15/0.99	22.5/0.99	24.5/0.98	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96
	1/2" [12.71]	7/8" [22.23]	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/1.00	24.5/1.00	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99
	3/8" [9.52.5]	7/8" [22.23]	15/1.00	22.5/1.00	24.5/1.00	24.5/1.00	24.5/1.00	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99	24.5/0.99
RAHM-065MS	1/2" [12.71]	3/4" [19.06]	15/0.98	22.5/0.98	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.95	24.5/0.95	24.5/0.94	24.5/0.94	24.5/0.94	24.5/0.94	24.5/0.94	24.5/0.94	24.5/0.94	24.5/0.94
	3/8" [9.52.5]	3/4" [19.06]	15/0.98	22.5/0.98	24.5/0.98	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.95	24.5/0.95	24.5/0.94	24.5/0.94	24.5/0.94	24.5/0.94	24.5/0.94	24.5/0.94	24.5/0.94
	1/2" [12.71]	7/8" [22.23]	15/1.00	22.5/0.99	24.5/0.99	24.5/0.99	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96
	3/8" [9.52.5]	7/8" [22.23]	15/1.00	22.5/0.99	24.5/0.99	24.5/0.99	24.5/0.98	24.5/0.98	24.5/0.97	24.5/0.97	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96	24.5/0.96

Always Use the smallest Liquid Line allowable to keep system charge to a minimum
 Areas in light grey shade requires long line set application (Use Oil Separator, Crank case heater, Hard Start Kit and Non-bleed TXV).
 Do not use line sets in areas shaded in Dark Grey
 Vertical separation cannot Exceed 24.5 meter of length.

Note: This chart is applicable for ODU with scroll compressor only





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